

## HAWAII, ISLAND OF OAHU

## 16200000 NORTH FORK KAUKNNAHUA STREAM ABOVE RIGHT BRANCH, NEAR WAHIWAHA

LOCATION.--Lat 21° 31'09", long 157° 56'53", Old Hawaiian Datum, Hydrologic Unit 20060000, on left bank 140 ft upstream from mauka ditch intake and Right Branch, and 4.5 mi northeast of Wahiawa.

DRAINAGE AREA.--1.38 mi<sup>2</sup>.

PERIOD OF RECORD.--May 1913 to July 1953, April 1960 to current year. Monthly discharge only for some periods, published in WSP 1319. Prior to August 1953, published as Left Branch of North Fork Kaukonahua Stream near Wahiawa.

REVISED RECORDS.--WSP 1219: 1931-33(M), 1935(M), 1937-38(M). WSP 1319: 1914, 1917-18(M), 1920-23(M), 1925(M), 1927-30(M). WSP 1719: Drainage area.

GAGE.--Water-stage recorder and concrete control. Elevation of gage is 1,150 ft above mean sea level (from topographic map).

REMARKS.--Records computed by H.A. Jeppesen. Records good.

AVERAGE DISCHARGE.--80 years (water years 1914-24, 1927-52, 1961-2003), 16.1 ft<sup>3</sup>/s (11,660 acre-ft/yr).

EXTREMES FOR PERIOD OF RECORD.--Maximum discharge, 5,640 ft<sup>3</sup>/s, October 28, 1981, gage height, 13.2 ft, from rating curve extended above 110 ft<sup>3</sup>/s on basis of slope-area measurement at gage height, 12.46 ft; minimum, 0.12 ft<sup>3</sup>/s, March 2, 13, 1941.

EXTREMES FOR CURRENT YEAR.--Peak discharges greater than base discharge of 1,300 ft<sup>3</sup>/s and maximum (\*):

Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)	Date	Time	Discharge (ft <sup>3</sup> /s)	Gage height (ft)
Jul 26	0645	*1,360	*7.62				No other peak greater than base discharge.

Minimum discharge, 0.38 ft<sup>3</sup>/s, Jan. 29, 30, Feb. 10, 11, gage height, 1.42 ft.

DISCHARGE, CUBIC FEET PER SECOND  
WATER YEAR OCTOBER 2002 TO SEPTEMBER 2003  
DAILY MEAN VALUES

DAY	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
1	4.8	4.6	2.0	1.6	6.5	5.0	2.0	5.7	2.5	6.0	4.0	4.5
2	9.1	3.0	1.8	1.4	2.0	12	6.3	3.4	2.4	5.2	5.3	2.8
3	3.9	8.0	1.8	1.2	1.4	4.2	2.4	3.0	2.2	4.4	11	2.4
4	3.0	2.9	1.6	1.1	0.93	3.2	6.3	2.8	11	4.1	3.8	2.3
5	13	2.7	1.5	1.0	0.70	3.8	11	2.8	7.2	4.4	8.3	2.1
6	3.3	2.1	1.5	0.88	0.61	7.4	22	3.8	3.1	8.9	5.4	2.0
7	3.5	1.9	3.1	0.78	0.53	6.5	4.6	79	2.2	6.8	3.5	29
8	6.8	1.8	1.5	0.76	0.50	3.1	2.5	28	2.0	9.1	2.9	3.4
9	6.3	1.7	1.2	0.70	0.44	2.7	24	30	1.9	4.7	2.7	3.5
10	3.1	1.6	1.2	0.65	0.41	2.3	82	63	1.7	3.6	2.7	92
11	2.8	4.9	16	2.1	0.41	2.1	26	13	1.6	11	2.9	119
12	2.7	43	27	1.3	0.50	1.9	32	8.6	1.5	4.6	3.6	26
13	3.6	15	3.5	0.72	0.57	1.8	9.2	14	1.4	20	2.5	16
14	3.0	6.0	2.0	0.73	80	1.6	5.9	7.9	1.5	4.6	6.5	14
15	28	40	1.6	4.4	20	1.5	4.8	36	1.7	4.4	3.1	17
16	4.5	34	1.4	1.8	2.0	36	4.6	9.4	9.3	13	2.5	7.3
17	11	7.3	1.4	0.70	1.5	6.3	32	8.5	7.4	4.7	28	7.9
18	3.4	5.4	1.8	0.57	1.2	2.6	23	20	14	3.5	16	13
19	2.9	4.5	1.3	0.53	1.1	2.0	6.9	8.5	29	3.3	4.8	12
20	2.6	3.6	1.0	3.1	3.5	1.8	29	7.8	8.2	44	3.5	7.9
21	2.4	3.2	0.94	0.99	9.0	1.6	14	5.7	10	7.5	4.5	5.7
22	2.3	3.0	1.2	0.57	12	1.5	14	5.1	5.8	4.6	8.3	4.9
23	2.1	2.7	8.2	0.50	7.2	1.4	7.5	4.6	17	5.9	12	4.3
24	15	2.5	2.1	1.3	30	1.3	12	4.2	30	46	11	3.9
25	20	2.4	1.4	2.3	5.4	1.3	7.1	4.0	22	36	4.0	3.6
26	3.3	2.8	6.5	0.70	30	1.1	5.8	3.8	8.5	69	3.2	3.3
27	2.6	2.5	9.7	0.50	13	8.6	5.1	3.5	10	11	2.9	3.1
28	2.3	2.3	39	0.44	13	3.9	4.4	3.3	28	23	2.8	2.9
29	2.1	11	6.1	0.41	---	16	3.9	3.0	12	6.7	3.5	2.7
30	2.0	2.6	3.1	19	---	9.1	3.6	2.8	8.7	5.1	8.4	2.6
31	14	---	1.9	38	---	5.1	---	2.6	---	4.5	4.3	---
TOTAL	189.4	229.0	154.34	90.73	244.40	158.7	413.9	397.8	263.8	389.6	187.9	421.1
MEAN	6.11	7.63	4.98	2.93	8.73	5.12	13.8	12.8	8.79	12.6	6.06	14.0
MAX	28	43	39	38	80	36	82	79	30	69	28	119
MIN	2.0	1.6	0.94	0.41	0.41	1.1	2.0	2.6	1.4	3.3	2.5	2.0
AC-FT	376	454	306	180	485	315	821	789	523	773	373	835

STATISTICS OF MONTHLY MEAN DATA FOR WATER YEARS 1913 - 2003, BY WATER YEAR (WY)

MEAN	13.1	17.3	14.9	14.5	12.5	18.4	19.6	16.2	13.4	18.3	17.9	15.0
MAX	32.7	76.5	48.9	126	117	74.4	58.6	53.3	31.3	48.0	50.1	79.1
(WY)	(1942)	(1966)	(1988)	(1921)	(1932)	(1982)	(1963)	(1927)	(1963)	(1930)	(1931)	(1914)
MIN	2.21	1.31	1.57	0.36	0.40	0.28	1.39	0.67	2.63	4.22	1.81	1.95
(WY)	(1985)	(1934)	(1990)	(1986)	(1986)	(1983)	(1966)	(1992)	(1951)	(1971)	(1975)	

## 16200000 NORTH FORK KAUKNAHUA STREAM ABOVE RIGHT BRANCH, NEAR WAHIAWA—Continued

SUMMARY STATISTICS	FOR 2002 CALENDAR YEAR	FOR 2003 WATER YEAR	WATER YEARS 1913 - 2003
ANNUAL TOTAL	5,199.74	3,140.67	
ANNUAL MEAN	14.2	8.60	
HIGHEST ANNUAL MEAN			16.1
LOWEST ANNUAL MEAN			29.5
HIGHEST DAILY MEAN	583	May 6	8.60
LOWEST DAILY MEAN	0.94	Dec 21	1932
ANNUAL SEVEN-DAY MINIMUM	1.2	Apr 10	2003
ANNUAL RUNOFF (AC-FT)	10,310	6,230	
10 PERCENT EXCEEDS	32	22	975 Feb 27, 1935
50 PERCENT EXCEEDS	5.4	3.8	0.12 Mar 13, 1941
90 PERCENT EXCEEDS	1.9	1.2	0.13 Mar 5, 1986

